

Independent Practice 2: Algebra Word Problems

1	Bacteria in a dish double the area they cover every day. If the dish is covered after 16 days, on what day was only one quarter of it covered?	
2	Benny takes 2 hours to wash 500 dishes, and Frank takes 3 hours to wash 500 dishes. How long will they take, working together, to wash 1000 dishes?	
3	Richard and Stephan earn \$5.15/hour. Rachel works 13 hours each week and Stephanie works 20 hours per week. What is total amount of money they get in 1 week?	
4	If six men can do a job in fourteen days, how many would it take to do the job in twenty-one days?	
5	The proportion of salt is 15 in 50 ounces of water. What is the proportion of water in the solution?	
6	A 800 seat multiplex is divided into 3 theatres. There are 270 seats in Theatre 1, and there are 150 more seats in Theatre 2 than in Theatre 3. How many seats are in Theatre 2?	
7	A rectangular chalk board is 3 times as long as it is wide. If it were 3 meters shorter and 3 meters wider, would it be a square?	
8	The sum of two numbers is 60. The larger number is twice the smaller number. What are the numbers?	
9	The sum of ages of three people is 120. The ages of second is twice the first and age of third is thrice the first one age. Find their ages.	
10	The sum of consecutive number is 153. Find the numbers?	
11	The number of boys is twice the number of girls in a class. The total number of students is 75. Find the number of boys and girls.	
12	In three more years, Mike's grandfather will be six times as old as Miguel was last year. When Miguel's present age is added to his grandfather's present age, the total is 68. How old is each one now?	
13	What two consecutive odd integers have a sum of 88?	
14	The sum of 4 consecutive integers is 106. Find numbers.	
15	The product of two consecutive even integers is 26. Find the numbers.	
16	If two times the smaller of consecutive integers is added to 6 times the larger the result is 150. Find the smaller integer.	
17	A woman has \$ 0.85 in dimes and nickels. She has 4 more dimes than nickels. How many nickels does she have?	
18	A bank teller has five and twenty dollar bills. The teller has 4 less of the fives. The total value of the money is \$ 280.00. Find the number of five dollar bills that he has.	
19	A bank teller has five and twenty dollar bills. The teller has a total of 24 bills. The total value of money is \$ 330.00 Find the number of dollar bills that he has.	
20	How many gallons of pure alcohol solution should be added to 63 gal of 32 % solutions to make it a 37 % solution?	